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interrupt threshold "critical section"

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Synchronization and communication in the T3E multiprocessor

SL Scott - Proceedings of the seventh international conference on ..., 1996 - portal.acm.org
... store-conditional implementations place restrictions on the types of operations that can be performed in the **critical section** (eg: no ... set to **interrupt** on arrival, never **interrupt** (in which case messages are detected via polling), or **interrupt** only when some **threshold** num- ber ...

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Events: a structuring mechanism for a real-time runtime system

M Donner, D Jameson ... - Real Time Systems ..., 2002 - ieeexplore.ieee.org
... [5]. Events may be internal or external. External events might be: Timer t has ticked. Sensor s has passed **threshold** B. 1/0 **interrupt** i has arrived. An internal event may be, for example: Variable v has changed. Boolean B has become false. Strip S has finished execution. ...

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The cyclic executive model and Ada

TP Baker ... - Real-Time Systems, 1989 - Springer
... sharing, typically implemented by critical sec- tions, can be handled simply by defining each **critical section** as an ... to log overruns, and if the number of consecutive overruns exceeds some preset **threshold**, a fault ... A hardware **interrupt** is handled as a special case of a rendezvous ...

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[PDF] Preemptible Linux: A reality check

K Morgan - MontaVista Software, 2001 - openmotif.opengroup.org
... cases, the locking function acts as a control on reentrancy to a **critical section** of kernel ... **interrupt** management requests from Linux, and thereby reduce the worst case **interrupt** off timings ... load on non-preemptible Linux causes user process delays that exceed the **threshold** of the ...

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Mutual exclusion of locally byzantine processes

J Beaquier - Distributed Computing Systems in the 1990s. ..., 2002 - ieeexplore.ieee.org
... The solution consists in a main program and two **interrupt** - handlers, that are similar for all Gi's ... used to obtain a consensus among the Gi, on what Gi to allow to enter its **critical section**. ... to provide to each Gi an infinite sequence of shadows (in the sense of **threshold** schemes, Cf ...

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Isochronous scheduling and its application to traffic control

M Iwasaki, T Takeuchi, M Nakahara ... - Real-Time Systems ..., 2002 - ieeexplore.ieee.org
... the current thread is in a non- preemptable state when a timer **interrupt** occurs, the ... Therefore, to prevent unexpected termination inside the preemptable **critical section**, each kernel thread issues a ... a physical segment is suppressed so that it does not exceed a certain **threshold**. ...

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Approximate analysis of distributed semi-hard real-time systems

D Marinescu - Automatic Control, IEEE Transactions on, 2002 - ieeexplore.ieee.org
... and S. B. Gershwin, "The uncertainty **threshold** principle: Some fundamental limitations of optimal decision ... does not allow preemption, for example, a process running into a **critical section** must complete ... A process with a higher priority cannot **interrupt** the execution of a process ...

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Mostly lock-free malloc

D Dice ... - ... of the 3rd international symposium on ..., 2002 - portal.acm.org
... Critically, the notification routine executes before control could pass back into an **interrupted critical section**. ... A restartable **critical section** can traverse such a list without any locking. ... if the proportion of free blocks to in-use blocks in the local heap passes the emptiness **threshold**. ...

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Rate-monotonic analysis for real-time industrial computing

MH Klein, JP Lehoczky ... - Computer, 2002 - ieeexplore.ieee.org
... For example, T, is considered a single task but is composed of two sys- tem subtasks: (1) an **interrupt** service routine and (2) servo control, which executes only ... In oth- er words, a **threshold** U: exists such that, if the utilization of a task set con- sisting of n periodic tasks, $U = C_i T_i$...

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Implementing MPI under AP/Linux

D Sitisky, P Mackerras, A Tridgell ... - MPI Developer's ..., 2002 - ieeexplore.ieee.org
... 0 The user should be: able to select whether polling andhx **interrupt** techniques are used to detect the ar ... siize will be sent using the in-place method, while those greater than the **threshold** size are ... If a **critical section** is **interrupted** by a signal, the han- dler return; immediately. ...

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Localizing failures in distributed synchronization

M Choy... - Parallel and Distributed Systems, IEEE ..., 2002 - [ieeexplore.ieee.org](#)
 ... Fig. 1. It provides a procedure Rueld, and the underlying algorithm provides an **interrupt** handler. A process ... The execution of these processes is **interrupted** and each of them executes an **interrupt** handler. Upon completion of ...

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A Burtsev - 2004 - Citeseer

... **Interrupt** and exception handler procedures provide also a compatibility layer required to implement L4 **interrupt** and exception protocols. 2.4. ... **threshold** task ... avoids priority inversions and limits worst-case response latency time to the time required to complete a **critical section**. ...

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Sequoia: A fault-tolerant tightly coupled multiprocessor for transaction processing

PA Bernstein - COMPUTER., 1983 - [computer.org](#)

... blocks, the PE uses the following mutual exclusion protocol: Get test-and-set lock Invalidate non-dirty cache *****Critical Section** Code *** Flush ... This activity could easily be automated by establishing a **threshold** for waiting time, above which repartitioning should be automatically ...

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O Synchronization - 2004 - Citeseer

... for such cases, simply by adjusting the frequencies (this would become a **threshold** value for the ... to enter a **critical section** while another process is currently inside a **critical section**? ... Short instructions, like **interrupt** calls or similar constructs for entering another code part, gets ...

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C Siebert... - 2004 - [tu-chemnitz.de](#)

... such cases, simply by adjusting the frequencies (this would become a **threshold** value for ... to enter their critical sections while another active process is currently inside a **critical section**? ... Short instructions, like **interrupt** calls or similar constructs for entering another code part, get ...

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[BOOK] Formal methods and their role in the certification of critical systems

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J Rushby - 1995 - Citeseer

... (Dissimilar designs cannot be expected to produce bit-for-bit identical behavior, so **threshold** voting has to be used.) Like other problems involving synchronization and coordination of concurrently active distributed components, redundancy management(whether of identical or ...

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Lock improvement technique for release consistency in distributed shared memory systems

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SS Fu... - ... 'Frontiers' 96', Sixth Symposium on the, 2002 - [ieeexplore.ieee.org](#)

... After the application program finishes with the **critical section**, it calls Lock-release(Z) to release ... case of the recursion is encountered when the partition size reaches a **threshold** of 512 ... tion by using the Berkeley sockets interface and employs a SIGIO signal (**interrupt**) handler to ...

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Fault-tolerant naming and mutual exclusion

J Beauquier - Semantics of Systems of Concurrent Processes, 1990 - Springer

... are given in annexe 2. The solution consists in a main program and two **interrupt**-handlers, that ... a consensus among the Gi's, on the particular Gj that should be allowed to enter its **critical section**. ... to each Gi an infinite sequence of shadows (in the sense of **threshold** schemes, Cf. ...

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Two distributed problems involving involving byzantine processes* 1

J Beauquier - Theoretical Computer Science, 1992 - Elsevier

... in :=true do nil; G, already made an svc for entering without exiting **threshold** (s, n ... lj(s); using Lagrange's interpolation polynomials in := true; jumpto(s); (enter the **critical section** end; Interrupthandler ... end; 182 J Beauquier Recall that it is assumed that the two **interrupt** handlers ...

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Optimal Polling for Latency-Throughput Tradeoffs in Queue-Based Network Interfaces for Clusters

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D Ponomarev, K Ghose... - Euro-Par 2001 Parallel Processing, 2001 - Springer

... wait is one of a longer duration, the process might find its **critical section** available at ... time, such service does not offer any improvement compared to a traditional **interrupt**-based mechanism ... a minimum or its deviation from the minimum does not exceed a predefined **threshold**. ...

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